



Range Overview  
**MICROCHEM<sup>®</sup> 3000**

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**3000**

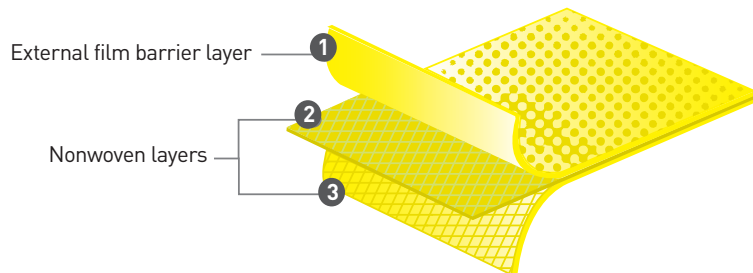
# MICROCHEM<sup>®</sup> 3000

MICROCHEM<sup>®</sup>  
3000



MICROCHEM<sup>®</sup> 3000 is one of the lightest and most comfortable chemical protective materials on the market today. This durable multi-layer fabric provides an extremely effective barrier against both inorganic chemicals and biological hazards.

One of the lightest and most comfortable chemical protective garments on the market today this durable multi-layer fabric provides an extremely effective barrier against both inorganic chemicals and biological hazards.



## Features & Benefits

**Protection** - Excellent liquid penetration resistance and barrier to fine particulates (>0.01 microns\*)

**Comfort** - Moisture vapour permeable ("breathable") to help reduce the risk of heat stress

**Silicone free** - Critical in paint spraying applications

**Low linting** - Reduces the risk of fibre contamination in some critical areas

**Optimised body fit** - Improves wearer comfort and safety

**Anti-static** - Tested according to EN 1149-5

\*EMSL test method

## Applications

- Chemicals
- Oil and petrochemicals
- Pharmaceutical
- Food industry (caustic clean downs)
- Sewage purification installations
- Industrial and tank cleaning
- Mining

## Protection Levels & Additional Properties



TYPE 3-B



TYPE 4-B



TYPE 5-B



EN 14126



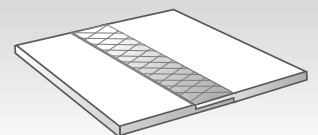
EN 1073-2



EN 1149-5

## Ultrasonically Welded Seams

Provides a strong liquid and particle barrier



## Specialist Approvals



Biological Agents  
EN 14126:2003



Suitable for Ex-Zones

## Technical Support

Contact the Microgard technical team to discuss facilitating independent permeation testing of your specific chemical or chemical mixture

Email: [technical@microgard.com](mailto:technical@microgard.com)

Technical datasheets & product flyers available to download at: [www.microgard.com](http://www.microgard.com)





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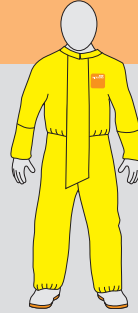
## MICROCHEM<sup>®</sup> 3000 Coverall Models

### Model 103

#### Suit Features

- Collar
- Double zip closure
- Double cuffs
- Elasticated waist, double cuffs and ankles

Sizes: S-5XL  
Colour: Yellow

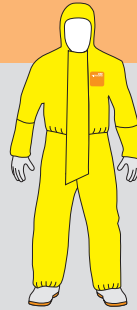


### Model 111

#### Suit Features

- 2 piece hood
- Double zip closure
- Double cuffs
- Elasticated hood, waist, double cuffs and ankles

Sizes: S-5XL  
Colour: Yellow

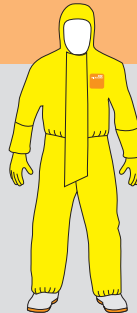


### Model 121

#### Suit Features

- 2 piece hood
- Double zip closure
- Elasticated hood, waist, ankles and sleeve over cuffs
- Attached Ansell Barrier Gloves

Sizes: S-5XL  
Colour: Yellow

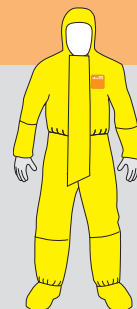


### Model 122

#### Suit Features

- 2 piece hood
- Double zip closure
- Elasticated hood, double cuffs and waist
- Integrated socks with boot overlap

Sizes: S-5XL  
Colour: Yellow

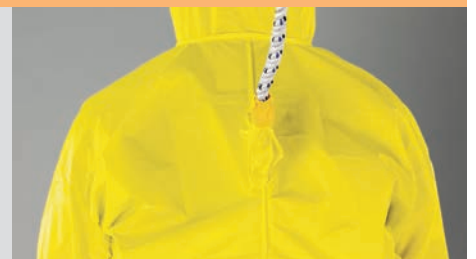
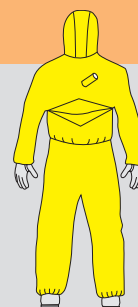


### Model 162

#### Suit Features

- Pass-thru device for use with fall arrest equipment
- 2 piece hood
- Double zip closure
- Double cuffs
- Elasticated hood, waist, double cuffs and ankles

Sizes: S-5XL  
Colour: White



# MICROCHEM® 3000 Accessories

MICROCHEM®  
3000

## MICROCHEM® 3000 Accessories

### Model 201



#### Jacket

- 2 piece hood
- Double zip closure
- Elasticated hood, wrists and hem
- Welded seams

**Sizes:** S-5XL

**Colour:** Yellow

### Model 301



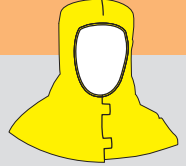
#### Trousers

- Elastication to waist and ankles
- No pockets
- Welded seams

**Sizes:** S-2XL

**Colour:** Yellow

### Model 507



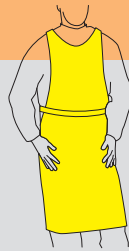
#### Cape Hood

- Balaclava style cape hood covering part of shoulders
- Velcro fastening to front
- Welded seams

**Size:** One Size

**Colour:** Yellow

### Model 213



#### Apron

- Tie fastening to waist
- 100 cm long tie fastening

**Size:** One Size

**Colour:** Yellow

### Model 400



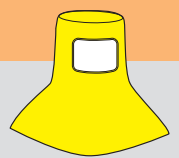
#### Overshoes

- Elasticated opening
- Welded seams

**Size:** One size (fits size 42-46)

**Colour:** Yellow

### Model 508



#### Cape Hood with visor

- Balaclava style cape hood covering part of shoulders
- Welded seams
- Visor to face opening

**Size:** One Size

**Colour:** Yellow

### Model 214



#### Apron with Sleeves

- Rear velcro fastening
- Elasticated wrists
- Welded seams

**Sizes:** S-5XL

**Colour:** Yellow

### Model 406



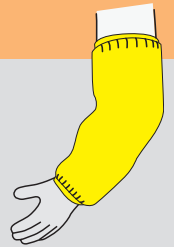
#### Overboots

- Elastic to top of boot
- Tie fastening
- Welded seams

**Size:** One Size (fits size 42-46)

**Colour:** Yellow

### Model 600



#### Oversleeves

- Elasticated at both ends
- Welded seams

**Size:** One Size

**Colour:** Yellow

# MICROCHEM® 3000 Technical Data

## MICROCHEM® 3000 Technical Data

MICROCHEM® 3000 is extensively tested in accordance with statutory requirements, including physical performance attributes and barrier to hazardous substances. The following tables outline the results obtained in independent laboratories according to European test methods.

Test Method	Result	EN Class (EN14325)
EN 530 Abrasion	>500 cycles	3 of 6
EN ISO 7854 Flex Cracking	>100,000 cycles	6 of 6
EN ISO 9073-4 Tear Resistance (Machine Direction)	>20N	2 of 6
EN ISO 9073-4 Tear Resistance (Cross Direction)	>20N	
EN ISO 13934-1 Tensile Strength (Machine Direction)	>100N	2 of 6
EN ISO 13934-1 Tensile Strength (Cross Direction)	>60N	
EN 863 Puncture Resistance	>10N	2 of 6
EN ISO 13938-1 Burst Resistance	>80kPa	2 of 6
EN 13274-4 Resistance to ignition	Pass	-
EN 1149-5 Electrostatic Properties (Surface Resistivity)	<2.5 x 10 <sup>9</sup>	-
ISO 13935-2 Seam Strength	>125N	4 of 6

MICROCHEM® 3000 has been tested against over 100 chemicals.

EN ISO 6529 Chemical Permeation Test Results			
Chemical Name	CAS Number	BT at 1.0µg/cm <sup>2</sup> /min	EN Class (EN 14325)
Acetic Acid Glacial	64-19-7	>480	6 of 6
Ethylene Glycol	107-21-1	>480	6 of 6
Ferric Chloride (45% w/w)	7705-08-0	>480	6 of 6
Formic Acid 90%	64-18-6	>480	6 of 6
Hexamethylene Diisocyanate	822-06-0	>480	6 of 6
Hydrazine Monohydrate 98% (containing Hydrazine, 64-65% w/w)	7803-57-8	>480	6 of 6
Hydrochloric Acid 37%	7647-01-0	>480	6 of 6
Hydrofluoric Acid (49% w/w)	7664-39-3	>480	6 of 6
Hydrogen Peroxide 35%	7722-84-1	>480	6 of 6
Isopropyl Alcohol	67-63-0	>480	6 of 6
Mercury	7439-97-6	>480	6 of 6
Methanol	67-56-1	>480	6 of 6
Nitrobenzene	98-95-3	>480	6 of 6
Perchloric Acid 30%	7601-90-3	>480	6 of 6
Sodium Hydroxide (40%)	1310-73-2	>480	6 of 6
Sodium Hypochlorite	7681-52-9	>480	6 of 6
Sulphuric Acid (96%)	7664-93-9	>480	6 of 6
Tetramethylammonium Hydroxide (20% w/w)	75-59-2	>480	6 of 6

MICROCHEM® 3000 when tested in accordance with EN 14126:2003 demonstrates an excellent barrier to infective agents. The specific test results are detailed in the table below.

EN14126 Barrier to Infective Agents	Result	EN Class
ISO 16603 Resistance to penetration by blood/fluids under pressure	Pass to 20kPa	6 of 6
ISO 16604 Resistance to penetration by blood borne pathogens	Pass to 20kPa	6 of 6
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact)	No penetration (up to 75 mins)	6 of 6
ISO/DIS 22611 Resistance to biologically contaminated aerosols	No penetration	3 of 3
ISO 22612 Resistance to dry microbial penetration	No penetration	3 of 3